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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,912	03/24/2004	Atsunari Tsuda	9319S-000693	3961

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EXAMINER
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CHOW, YUK

ART UNIT	PAPER NUMBER
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2609

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/20/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

10/807,912

Applicant(s)

TSUDA ET AL.

Examiner

Yuk C. Chow

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 March 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 05/22/06;03/30/06;03/24/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “**drive setup circuit**” must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Objections***

2. Claims 5, 6, 12, 13 are objected to because of the following informalities:

As to claims 5 and 12, "An electro-optical device comprising the display drive device" should have been written as "A display drive device comprising an electro-optical device".

As to claims 6 and 13, "An electronic apparatus comprising the electro-optical device" should have been written as "The electro-optical device comprising an electronic apparatus". Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recite the limitation "a drive setup circuit..." which is not clear, it does not distinctly point to a particular circuit.

For the purpose of examining the merits of claim, the claimed terminology has been interpreted as means of drive setup in light of prior art.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1-15 rejected under 35 U.S.C. 102(b) as being anticipated by Tamura (US Patent 7,098,902).

As to claim 1, Tamura discloses a display drive device (Fig. 1) comprising: a drive circuit (Fig. 1 (110)) driving a display unit (Fig. 1(100)) in which pixels are formed; a nonvolatile storage circuit (Fig. 1(134)) storing screen information indicating a position of a pixel to be driven in the display unit (Col. 3 line 59-Col. 4 line 4); a control circuit (Fig. 1(130)) reading the screen information from the nonvolatile storage circuit (Col. 4 lines 25-32); and a drive setup circuit (Fig. 2(600)) setting a position based on the screen information read by the control circuit in the drive circuit (Col 5 Lines 39- 54).

As to claim 2, Tamura discloses a display drive device according to claim 1, wherein the control circuit reads the screen information from the nonvolatile storage circuit in synchronization with a supply of a power voltage from a power circuit which supplies a voltage (see Col. 4 lines 20 – 41).

As to claim 3, Tamura discloses a display drive device according to claim 1, wherein the control circuit reads the screen information from the nonvolatile storage circuit at predetermined intervals (see Col. 7 lines 26-31).

As to claim 4, Tamura discloses a display drive device according to claim 1, wherein the nonvolatile storage circuit stores the display information (see Col. 4 lines 17-38); the control circuit reads the display information from the nonvolatile storage circuit (see Col. 4 lines 17-38); and the drive circuit displays the display information read from the control circuit on the display unit (see Col. 4 lines 17-38).

As to claim 5, Tamura discloses an electro-optical device (Fig. 1, see Col.2 lines 17-21, Col 3 lines 59-65) comprising the display drive device according to claim 1.

As to claim 6, Tamura discloses an electronic apparatus (Col. 4 Lines 37-41, also see Fig. 1) comprising the electro-optical device according to claim 5.

As to claim 7, same rejection applies as in claim 1 above.

As to method claim 8, same rejections apply as in claims 1-4 above.

As to claim 9, Tamura discloses a display drive device comprising: a drive circuit (Fig. 1 (110)) driving a display unit (Fig. 1(100)) in which pixels are formed; a nonvolatile storage circuit (Fig. 1(134)) storing setup information to change a drive voltage (Col. 4 lines 42-47 (grayscale voltage)) to be supplied to the drive circuit (Col. 4 lines 42- 63); a control circuit (Fig. 1(130)) reading the setup information from the nonvolatile storage circuit at predetermined intervals (see Col. 7 lines 26-31); and a voltage supply circuit (Fig. 1(132)) supplying a drive voltage based on the setup information read by the control circuit to the drive circuit (Col. 8 lines 17-32).

As to claim 10, Tamura discloses a display drive device according to claim 9, wherein the control circuit receives instruction information for instructing the reading of the setup information and reads the corresponding setup information (Col. 4 lines 25-32).

As to claims 11, Tamura discloses a display drive device according to claim 9, further comprising a determination circuit (Fig. 2(578)) that determines whether a drive voltage is supplied from the voltage supply circuit, and, if the determination is negative, re-starts the voltage supply circuit (Col. 8 lines 17-32).

As to claim 12, Tamura discloses an electro-optical device (Fig. 1) comprising the display drive device according to claim 9.

As to claim 13, Tamura discloses an electronic apparatus (Col. 4 Lines 37-41) comprising the electro-optical device according to claim 12.

As to claim 14, same rejection applies as in claim 9 above.

As to method claim 15, same rejections apply as in claims 9 and 10.

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuk C. Chow whose telephone number is 571 270-1544. The examiner can normally be reached on 8-6 M-TH E.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571 270-1550. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

YCC

  
AMARE MENGISTU  
SUPERVISORY PATENT EXAMINER